

AMENDMENTS TO THE CLAIMS

- At time of the Action: Claims 1-9, 11-16, 25-31, and 33-36
- Amended Claims: Claims 1, 3-4, 8-9, 11-12, 25, and 31
- After this Response: Claims 1-9, 11-16, 25-31, and 33-36

The following list of claims replaces all prior versions and list of claims in the application.

1. (Currently Amended) One or more computer readable media having stored thereon a plurality of instructions that, when executed by one or more processors, causes the one or more processors to perform acts including:

receiving requirements to protect an original digital good;

parsing the original digital good along natural boundaries into portions;

selecting a first portion of a ~~the~~ original digital good;

generating a substitution box (S-box) that includes a byte or bit values from the first portion of the original digital good;

~~selecting another~~ identifying a second portion of the original digital good, wherein the ~~other second~~ portion is to be encrypted; and

~~using the portion as a~~ mapping the byte or bit values of the second portion to substitution byte or bit values based on the substitution box (S-box) when to encrypting the ~~other second~~ portion; and

outputting a protected digital good that is functionally equivalent to and derived from the original digital good.

2. (Original) One or more computer readable-media as recited in claim 1, wherein the entire digital good is to be encrypted.

3. (Currently Amended) One or more computer readable media as recited in claim 1, wherein the using mapping comprises determining, for each group of bits of the ~~other~~ second portion, a new group of bits based on the first portion.

4. (Currently Amended) One or more computer readable media as recited in claim 1, wherein the using mapping comprises using bits of the first portion to determine a substitution sub-portion for each sub-portion in the ~~other~~ second portion.

5. (Original) One or more computer readable media as recited in claim 4, wherein the sub-portion comprises a byte.

6. (Original) One or more computer readable media as recited in claim 1, wherein the digital good comprises a software program.

7. (Original) One or more computer readable media as recited in claim 1, wherein the digital good includes video content.

8. (Currently Amended) A method comprising:
receiving requirements to protect an original digital good;

analyzing the original digital good;

parsing the original digital good along natural boundaries into portions;

selecting a first segment of a the original digital good;

generating a substitution box (S-box) that includes a byte or bit values from the first portion of the original digital good;

selecting ~~another~~ a second segment of the original digital good, wherein the ~~other~~ second segment is to be encrypted using an encryption process; and

mapping, as at least part of the encryption process, the byte or bit values within the ~~other~~ second segment to new byte or bit values based on the first segment, wherein the mapping comprises using the first segment as in a substitution box (S-box) during the encryption process; and

outputting a protected digital good that is functionally equivalent to and derived from the original digital good.

9. (Currently Amended) A method as recited in claim 8, wherein the entire original digital good is to be encrypted by the encryption process:

10. (Canceled).

11. (Currently Amended) A method as recited in claim 8, wherein the mapping comprises determining, for each group of bits of the ~~other~~ second segment, a new group of bits based on the first segment.

12. (Currently Amended) A method as recited in claim 8, wherein the mapping comprises using bits of the first segment to determine a new value for each value in the ~~other~~ second segment.

13. (Original) A method as recited in claim 8, wherein the digital good comprises a software program.

14. (Original) A method as recited in claim 8, wherein the digital good includes video content.

15. (Original) A method as recited in claim 8, wherein the encryption process uses a Data Encryption Standard (DES) cipher.

16. (Original) One or more computer-readable memories comprising computer-readable instructions that, when executed by a processor, direct a computer system to perform the method as recited in claim 8.

17-24. (Canceled)

25. (Currently Amended) A production system, comprising:

a memory to store an original ~~program~~ digital good, wherein the original digital good is transformed into a protected digital good; and

an analyzer to parse the original digital good along natural boundaries into segments; and

a production server equipped with a substitution box (S-box) protection tool that is used to augment the original program-digital good for protection purposes, the production server being configured to identify a first segment in the original program-digital good and use a byte or bit values from the first segment as in an S-box when encrypting a second segment of the original program-digital good.

26. (Original) A production system as recited in claim 25, wherein the production server is further configured to use the first segment as an S-box by determining, for each group of bits of the second segment, a new group of bits based on the first segment.

27. (Original) A production system as recited in claim 25, wherein the production server is further configured to use the first segment as an S-box by using bits of the first segment to determine a substitution value for each value in the second segment.

28. (Original) A production system as recited in claim 25, wherein the production server is to encrypt the entire digital good.

29. (Original) A production system as recited in claim 25, wherein the digital good includes one or more of: a software program, audio content, and video content.

30. (Original) A production system as recited in claim 25, wherein the production server uses a Data Encryption Standard (DES) cipher to encrypt the second segment.

31. (Currently amended) A client-server system, comprising:
a production server to receive requirements to protect an original digital good;
an analyzer in the production server to parse the digital good along natural boundaries into portions;

a the production server to use a byte or bit value from a portion of a first digital good as in a substitution box (S-box) in to encrypting at least a portion of a second digital good to produce a protected digital good;

a client to store and execute the protected digital good, the client being configured to evaluate the protected digital good to determine whether the protected digital good has been tampered with; and

wherein the first digital good and the second digital good are the same digital good; and

wherein the protected digital good is functionally equivalent to and derived from the original digital good.

32. (Canceled)

33. (Original) One or more computer readable media having stored thereon a plurality of instructions that, when executed by one or more processors, causes the one or more processors to perform acts including:

decrypting at least a portion of a digital good by using another portion of the digital good as a substitution box (S-box).

34. (Original) One or more computer readable media as recited in claim 33, wherein the decrypting is based at least in part on a Data Encryption Standard (DES) cipher.

35. (Original) One or more computer readable media as recited in claim 33, wherein the decrypting comprises using bits of the other portion to determine a substitution value for each value in the portion.

36. (Original) One or more computer readable media as recited in claim 33, wherein the digital good includes one or more of: a software program, audio content, and video content.